U.S. Serial No.: 10/828,838

Atty. Docket No.: 22956-261 (MIT5033)

AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A biocompatible meniscal repair device, comprising; a biocompatible tissue repair scaffold adapted to be placed in contact with a defect in a meniscus, wherein the scaffold comprises a dry laid nonwoven polymeric material, the dry laid nonwoven polymeric material consists of having a density in the range of about 120 mg/cc to 360 mg/cc, and wherein the scaffold has an initial modulus of elasticity greater than about 1.5 MPa and an initial suture pull-out strength greater than about 6 N, and wherein viable tissue is disposed on the tissue repair scaffold, the viable tissue having viable cells capable of integrating with native
- (Previously Presented) The repair device of claim 1, wherein the tissue repair scaffold has an initial peak stress greater than about 2 MPa.

tissue adjacent to the tissue repair scaffold.

- (Previously Presented) The repair device of claim 1, wherein the tissue repair scaffold has an initial suture pull-out strength less than about 45 N.
- (Previously Presented) The repair device of claim 1, wherein the tissue repair scaffold has an
 initial modulus of elasticity less than about 40 MPa.
- (Original) The repair device of claim 1, wherein the tissue repair scaffold has a thickness in the range of about 0.5 mm to 1.5 mm.
- (Original) The repair device of claim 1, wherein the tissue repair scaffold further comprises a biocompatible foam material joined to the nonwoven polymeric material.
- (Original) The repair device of claim 1, the nonwoven polymeric material comprises a synthetic polymer.
- (Original) The repair device of claim 1, wherein the tissue repair scaffold is bioabsorbable.
- 9. (Canceled).
- (Original) The repair device of claim 1, wherein the nonwoven polymeric material is formed from at least one polymer derived from monomers selected from the group consisting of

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glycolide, lactide, caprolactone, trimethylene carbonate, polyvinyl alcohol, and dioxanone.

- (Original) The repair device of claim 10, wherein the nonwoven polymeric material comprises polydioxanone.
- (Original) The repair device of claim 10, wherein the nonwoven polymeric material comprises a copolymer of polyglycolic acid and polylactic acid.
- (Original) The repair device of claim 1, further comprising at least one bioactive substance effective to stimulate cell growth.
- 14. (Original) The repair device of claim 13, wherein the bioactive substance is selected from the group consisting of a platelet rich plasma, cartilage-derived morphogenic proteins, recombinant human growth factors, and combinations thereof.
- 15. (Canceled).
- (Original) The repair device of claim 1, wherein the nonwoven polymeric material comprises crimped, synthetic polymer fibers.
- 17. (Original) The repair device of claim 1, wherein the nonwoven polymeric material is heat-set.
- (Original) The repair device of claim 1, wherein the fiber orientation of the nonwoven polymeric material is isotropic.
- 19. (Currently Amended) A biocompatible meniscal repair device, comprising; a biocompatible tissue repair scaffold adapted to be placed in contact with a defect in a meniscus, the scaffold including:
 - (a) a dry laid nonwoven polymeric material consisting of having a density in the range of about 120 mg/cc to 360 mg/cc:
 - (b) a biocompatible foam; and
 - (c) viable tissue disposed on the tissue repair scaffold, the viable tissue containing viable cells capable of integrating with native tissue adjacent to the tissue repair scaffold,

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wherein, the scaffold provides increased suture pull-out strength and has an initial modulus of elasticity in the range of about 1.5 MPa to 40 MPa.

- (Original) The repair device of claim 19, wherein the tissue repair scaffold has a peak stress
 in the range of about 2 MPa to 14 MPa.
- (Original) The repair device of claim 19, wherein the tissue repair scaffold has a suture pullout strength in the range of about 6 N to 45 N.
- 22. (Cancelled).
- (Original) The repair device of claim 19, wherein the tissue repair scaffold has a thickness in the range of about 0.5 mm to 1.5 mm.
- (Original) The repair device of claim 19, the nonwoven polymeric material comprises a synthetic polymer.
- 25. (Original) The repair device of claim 19, wherein the tissue repair scaffold is bioabsorbable.
- (Original) The repair device of claim 19, further comprising at least one bioactive substance
 effective to stimulate cell growth.
- (Original) The repair device of claim 26, wherein the bioactive substance is selected from the
 group consisting of a platelet rich plasma, cartilage-derived morphogenic proteins, recombinant
 human growth factors, and combinations thereof.
- 28. (Cancelled).
- 29. (Cancelled).
- (Cancelled).
- 31. (Cancelled).

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32. (Previously Presented) The repair device of claim 1, wherein the viable tissue disposed on the tissue repair scaffold is selected from the group consisting of minced tissue, sliced tissue, and a tissue strip.

- 33. (Previously Presented) The repair device of claim 19, wherein the viable tissue disposed on the tissue repair scaffold is selected from the group consisting of minced tissue, sliced tissue, and a tissue strip.
- 34. (Cancelled).